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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/754,453	01/09/2004	Cheol-Soo Jung	51752/DBP/Y35 7997		
23363	7590 01/17/2006		EXAMINER		
•	PARKER & HALE, LLP	MARTIN, ANGELA J			
PO BOX 7068 PASADENA,	CA 91109-7068		ART UNIT	PAPER NUMBER	
,			1745		
			DATE MAILED: 01/17/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Annlines	M-	A1:4(-)				
Office Action Summary		Applicati		Applicant(s)				
		10/754,4	53	JUNG ET AL.				
		Examine		Art Unit				
		Angela J.		1745				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MAIL asions of time may be available under the provisions of 3 SIX (6) MONTHS from the mailing date of this communic period for reply is specified above, the maximum statutor to reply within the set or extended period for reply will, eply received by the Office later than three months after ad patent term adjustment. See 37 CFR 1.704(b).	LING DATE OF TI 7 CFR 1.136(a). In no evaluation. ry period will apply and w by statute, cause the app	HIS COMMUNICATION ent, however, may a reply be tin ill expire SIX (6) MONTHS from lication to become ABANDONE	N. nely filed the mailing date of this o D (35 U.S.C. § 133).				
Status								
1) 又	Responsive to communication(s) filed of	on 09 January 200	4					
	This action is FINAL . 2b)⊠ This action is non-final.							
/	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
,—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims	·						
4)⊠	4)⊠ Claim(s) <u>1-17</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	☐ Claim(s) is/are allowed.							
	☐ Claim(s) 1-17 is/are rejected.							
•	_							
	8) Claim(s) are subject to restriction and/or election requirement.							
Applicati	on Papers							
9)□	The specification is objected to by the E	xaminer.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority u	ınder 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:								
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
* 0	application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.								
Attachmen	k(s)							
1) 🛛 Notic	e of References Cited (PTO-892)		4) Interview Summary	(PTO-413)				
	e of Draftsperson's Patent Drawing Review (PTO-		Paper No(s)/Mail Da	ate	0.450)			
	nation Disclosure Statement(s) (PTO-1449 or PTC r No(s)/Mail Date <u>1/04;10/04;12/05</u> .	D/SB/08)	5) Notice of Informal P 6) Other:	atent Application (PT	U-152)			

Application/Control Number: 10/754,453

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Osawa et al., JP 08-078053 (machine translation).

Rejection of claims 1-17 drawn to a nonaqueous electrolyte.

Osawa et al., teach a nonaqueous electrolyte comprising a cyclic carbonate, a lithium salt (sect. 0005), and a polyether-modified silicon oil as described in claim 1 (abstract; Formulas 1-6). It teaches a chain carbonate (sect. 0005). It teaches a rechargeable lithium battery comprising a positive and negative electrode (sect. 0006), and polyether-modified silicon oil as described in claim 6 (Formulas 1-6). It teaches the negative electrode comprises a layer of polyacrylate (sect. 0008). It teaches a chain carbonate (sect. 0005).

Thus, the invention as a whole would have been obvious to one of ordinary skill in the art at the time the invention was made because although it does not recite the viscosity and flash point of the silicon oil, these properties would be characteristic features of the silicon oil since the formulas are equivalent. In addition, although it does not recite a fluorinated cyclic carbonate, it does list cyclic carbonates (sect. 0005).

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Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Sasaki et al., JP 06-096759, teach a nonaqueous electrolyte comprising silicon. Kami et al., U.S. Pat. Application Pub. 2002/0160256 A1, Hori et al., U.S. Pat. No. 6,124,062, Yamada et al., U.S. Pat. No. 6,872,493 B2, Kobayashi et al., EP 0581296 A2 teach a nonaqueous electrolyte comprising silicon.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angela J. Martin whose telephone number is 571-272-1288. The examiner can normally be reached on Monday-Friday from 9:00 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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